

ECS Configuration Change Request

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1. Originator Gary Lake	2. Log Date: 9-14-00	3. CCR #: 00-0927	4. Rev:	5. Tel: 301 614-5751	6. Rm #: N126-6	7. Dept. Sys. Eng
8. CCR Title: Add DPR Completion Archive Table						
9. Originator Signature/Date <i>Gary Lake 9/8/2000</i>		10. Class	11. Type: CCR	12. Need Date: 9/22/2000		
13. Office Manager Signature/Date <i>Gary Lake 9/11/00 PS</i>		14. Category of Change: Update ECS Baseline Doc.		15. Priority: (if "Emergency" fill in Block 26). Routine		
16. Documentation/Drawings Impacted None		17. Schedule Impact: None		18. CI(s) Affected:PLS		
19. Release Affected by this Change: 5A		20. Date due to Customer:		21. Estimated Cost: None - Under 100K		
22. Source Reference: <input type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input checked="" type="checkbox"/> GSFC <input type="checkbox"/> Other						
23. Problem: (use additional Sheets if necessary) In response to trouble ticket GSF000000003670, a means is needed to preserve DPR completion data in order to collect and analyse DPR completion statistics. In order to maximize DPR performance, it is necessary to remove DPR records from the PIDprCompletion table in the pdps database. The consequence of removing these records is the introduction of errors in the output of applications that use the PIDprCompletion table records for statistics gathering. An additional table needs to be added to the pdps database to store the DPR completion data to support in a more stable manner the applications that compute DPR statistics.						
24. Proposed Solution: (use additional sheets if necessary) A table needs to be added to the pdps database to store DPR completion data. An insert/update trigger will be added to the PIDprCompletion table that copies data from the relevant columns (for statistical analysis) of records into another table that serves as a temporary reservoir. An insert trigger will be created on the new table to delete records that are more than 7 days older than the time of record insertion. The applications that perform statistical analysis will be modified to use the new table as a data source. Currently, that implies that changes need to be made to DUE003, DUE007, to the Dpr Monitor code, and to						
25. Alternate Solution: (use additional sheets if necessary)						
26. Consequences if Change(s) are not approved: (use additional sheets if necessary) The accuracy of the statistics pertaining to DPR completion rates and resource loads will contain recurrent errors that correspond to clean-out events on the PIDprCompletion table.						
27. Justification for Emergency (If Block 15 is "Emergency"):						
28. Site(s) Affected: <input type="checkbox"/> EDF <input type="checkbox"/> PVC <input type="checkbox"/> VATC <input type="checkbox"/> EDC <input checked="" type="checkbox"/> GSFC <input type="checkbox"/> LaRC <input type="checkbox"/> NSIDC <input type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input type="checkbox"/> IDG Test Cell <input type="checkbox"/> Other						
29. Board Comments: <i>With drawn by Gary Lake. He will submit new CCR with modified solution.</i>		30. Work Assigned To:		31. CCR Closed Date: <i>10/03/00 KAM</i>		
32. EDF/SCDV CCB Chair (Sign/Date): <i>W.R. 10/3/00</i>		Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS				
33. M&O CCB Chair (Sign/Date): <i>W.R. 10/3/00</i>		Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS				
34. ECS CCB Chair (Sign/Date): <i>W.R. 10/3/00</i>		Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS				

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ECS/EDF/SCDV/M&O

ADDITIONAL SHEET

CCR #: 00-0927

Rev: - Originator: Gary Lake

Telephone: 301 614 5751

Office: N126-6

Title of Change: Add DPR Completion Archive Table

Dave Van Mourik's applying for collection hourly DPR statistics. The build scripts for DUE003 and DUE008 will be combined with the SQL code for creating the PIDprCompletionArchive table and two triggers. Minor changes will be made to the UpdateLatestDprStatistics_V1.ksh and UpdateLatestDailyDprStatistics_V1.ksh executables to provide improved garbage file collection and to replace function parameters specifying the database to be used with the variable "INSERT_MODE_HERE" to determine the mode of the database to be used. This will have the effect of consolidating DUE003 and DUE007 into DUE015 (see Addendum) This DUE is for possible incorporation into the M&O baseline and is available for use at other DAACs.

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